Human Recombinant S100A1

Catalog No.	CRS129A	**Quantity:**	5 µg
	CRS129B		10 µg
	CRS129C		25 µg

Alternate Names: Protein S100-A1, S100 calcium-binding protein A1, S-100 protein alpha subunit, S-100 protein alpha chain, S100A1, S100A, S100, S100-alpha, S100-A1.

Description: S100A1 is a member of the S100 family of calcium binding proteins with EF-hand type Ca+2 binding motive. S100A1 (Calcium Binding Protein A1) is involved in the activation of sarcoplasmatic calcium release and the regulation of intermediate filament polymerization. S100A1 may function in stimulation of Ca2+-induced Ca2+ release, inhibition of microtubule assembly, and inhibition of protein kinase C-mediated phosphorylation. Reduced expression of S100A1 has been implicated in cardiomyopathies.
S100 proteins are localized either in the cytoplasm or the nucleus of a wide range of cells. There are at least 13 members in the S100 gene family, which are located as a cluster on chromosome 1q21.
S100A1 Human Recombinant full length protein expressed in E.*coli* is antibody reactive. The S100A1 is purified by proprietary chromatographic techniques.

Source: *E. coli*

Formulation: S100A1 in 20mM Tris-HCl, pH7.0 and 0.1mM EDTA.

Purity: Greater than 95% by SDS-PAGE.

Physical Appearance: Sterile Filtered clear solution.

Activity: ~3 nmol/mg/min using phosphatidylinositol as substrate.

Storage & Stability: Store vial at -20°C to -80°C. When stored at the recommended temperature, this protein is stable for 12 months. **Avoid repeated freeze-thaw cycles.**

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